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IAP9 Rec'd PCT/PTO 02 FEB 2006

PATENT APPLICATION

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re the Application of

Susumu NODA et al.

Application No.: New U.S. National Stage of
PCT/JP2004/012114

Filed: February 2, 2006

Docket No.: 125714

For: TWO-DIMENSIONAL PHOTONIC CRYSTAL MULTIPLEXER/DEMULTIPLEXER

INFORMATION DISCLOSURE STATEMENT

Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

Sir:

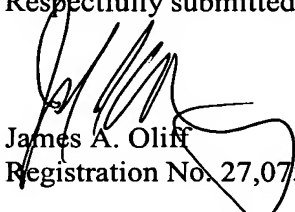
Pursuant to 37 CFR §1.56, the attention of the Patent and Trademark Office is hereby directed to the references listed on the attached PTO-1449. Unless otherwise indicated herein, one copy of each reference is attached. It is respectfully requested that the information be expressly considered during the prosecution of this application, and that the references be made of record therein and appear among the "References Cited" on any patent to issue therefrom.

- ☒ 1. This Information Disclosure Statement is being filed (a) within three months of the U.S. filing date of this non-CPA application, OR (b) before the mailing date of a first Office Action on the merits in the present application. No certification or fee is required.
- ☒ 2. Relevance of one or more non-English language reference is discussed in the present specification. See References 6 & 17.
- ☒ 3. One or more reference cited herein was cited in the International Search Report. An English language version of the International Search Report is attached for the Examiner's information. See References 1-5 & 8-16.
- ☒ 4. In accordance with 37 CFR §1.98(a)(2)(ii), copies of any U.S. patents and patent application publications are not attached.
- ☒ 5. An English language Abstract of one or more non-English language reference is attached hereto. See References 3 & 5-7.

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- ☒ 6. A computer-generated English language translation of one or more Japanese Patent Publication cited herein has been obtained from the website of the Japanese Patent Office (<http://www.jpo.go.jp>), and is attached, but has not been reviewed for accuracy. See References 6 & 7.

Respectfully submitted,


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Date: February 2, 2006

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<p>DEPOSIT ACCOUNT USE AUTHORIZATION Please grant any extension necessary for entry; Charge any fee due to our Deposit Account No. 15-0461</p>

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Form PTO-1449 (REV. 1/06)		US Dept. of Commerce PATENT & TRADEMARK OFFICE		ATTY DOCKET NO. 125714		APPLICATION NO. New U.S. National Stage of PCT/JP2004/012114	
INFORMATION DISCLOSURE STATEMENT (Use several sheets if necessary)				APPLICANTS Susumu NODA et al.			
				FILING DATE February 2, 2006			
U.S. PATENT DOCUMENTS							
Examiner Initials	Cite No.	Document Number	Date	Name			
	1	US 2002/0191905 A1	12/19/2002	PRATHER et al.			
FOREIGN PATENT DOCUMENTS							
Examiner Initials	Cite No.	Document Number	Date	Country	With English Abstract	With English Translation	
	2	WO 98/57207	12/17/1998	WIPO			
	3	WO 2004/068205 A1	08/12/2004	WIPO	X		
	4	WO 01/20379 A1	03/22/2001	WIPO			
	5	JP A 62-100706	05/11/1987	JAPAN	X		
	6	JP A 2001-272555	10/05/2001	JAPAN	X	X	
	7	JP A 2001-228347	08/24/2001	JAPAN	X	X	
OTHER DOCUMENTS							
Examiner Initials	Cite No.	(Including Author, Title, Date, Pertinent Pages, etc.)					
	8	Yoshimasu SUGIMOTO et al; 29a-YN-5; "Design and characterization of coupling-controlled directional coupler (CC-DC) Based on photonic-crystal FESTA"; March 2003; p. 1137					
	9	Yoshihiro AKAHANE et al; "Design of a channel drop filter by using a donor-type cavity with high-quality factor in a two- dimensional photonic crystal slab"; Applied Physics Letters; Volume 82, Number 9; March 3, 2003; pp. 1341-1343					
	10	Bong-Shik SONG et al; "Photonic Devices Based on In-Plane Hetero Photonic Crystals"; Science; Vol. 300; June 6, 2003; p. 1537, right column, lines 1-9, Fig. 1D					
	11	B.S. SONG et al; 29a-YN-4; "Improvement of Optical Add/Drop Filtering efficiency by using an In-Plane Hetero structure Interface"; March 2003; p. 1137					
	12	AKAHANE et al; 29a-YN-9; "Drastic Increase of Quality Factor of Defect-Cavities in 2D Photonic Crystal Slabs by Modifying Defect Structure"; March 2003; p. 1138					
	13	AKAHANE et al; 1p-ZM-3; "Optical Add/Drop Devices Using 2D Photonic Crystal - Design of device structures to achieve flat-top transfer function in filtering responses"; 2003; p. 944					
EXAMINER					DATE CONSIDERED		
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OTHER DOCUMENTS							
Examiner Initials	Cite No.	(Including Author, Title, Date, Pertinent Pages, etc.)					
	14	Y. SUGIMOTO et al; "Design, fabrication, and characterization of coupling-strength-controlled directional coupler based on two-dimensional photonic-crystal slab waveguides"; Applied Physics Letters; October 20, 2003; Volume 83, Number 16; pp. 3236-3238					
	15	Y. AKAHANE et al; "High-Q photonic nanocavity in a two-dimensional photonic crystal"; Nature Publishing Group; October 30, 2003; Vol. 425; pp. 944-947					
	16	B.E. LITTLE et al; "Microring Resonator Channel Dropping Filters"; Journal of Lightwave Technology; Vol. 15, No. 6, June 1997; pp. 998-1005					
	17	S. FAN et al; "Channel Drop Tunneling through Localized States"; Physical Review Letters; The American Physical Society; February 2, 1998; Volume 80, Number 5; pp. 960-963					
	18	M.J. KHAN et al; "Mode-Coupling Analysis of Multipole Symmetric Resonant Add/Drop Filters"; IEEE Journal of Quantum Electronics; October 1999; Vol. 35; No. 10; pp. 1451-1460					
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